

PROCESS FOR PRODUCING PHOTONIC CRYSTALS

Abstract of the Disclosure

- 5 A process for producing photonic crystals comprises
- (a) providing a substantially inorganic photoreactive composition;
- (b) exposing, using a multibeam interference technique involving at least three
 beams, at least a portion of the photoreactive composition to radiation of
 appropriate wavelength, spatial distribution, and intensity to produce a two-
10 dimensional or three-dimensional periodic pattern of reacted and non-reacted
 portions of the photoreactive composition; and
- (c) removing the non-reacted portion or the reacted portion of the photoreactive
 composition to form interstitial void space.